

Public Information Meeting

**State Project No. 131-194/195
Rehabilitation of Bridge Nos. 01235
and 01236**

**I-84 over Marion Ave
Southington, Connecticut**

Connecticut Department of Transportation





Bridge 01235 EB

Bridge 01236 WB

Connecticut Department of Transportation



CTDOT Role and Mission

Bureau of Engineering and Construction

- **Responsible for engineering design, construction and inspection of transportation projects**
- **Maintain state highway and bridge system**

Contact: Ms. Mary E. Baker



Close, Jensen and Miller, P.C. **Liaison Engineers**

CTDOT has retained the firm of Close, Jensen and Miller to supervise the activities relative to the design of these bridges

Contact: Mr. Ajit S. Gokhale, P.E.



Project Goals

- **Replace existing superstructures utilizing rapid construction methods**
- **Minimum construction time**
- **Minimize disturbance to traveling public**
- **Effectively use funds**



Reasons for Replacement

Superstructure Rating 4

- **Diagonal cracks , spalls in beam ends**
- **Exposed reinforcement & tendons**
- **Longitudinal cracks in beam bottom**





Bridge 01235 (EB) Looking North

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Bridge 01236 (WB) Looking South

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Existing Bridge Description

- **Built in 1963**
- **Located on I-84, at Exit 30**
- **Each bridge carries three lanes of traffic**
- **I-84 Average Daily Traffic (ADT): 83,100 (2010)**



Existing Bridges

- **Existing Bridge Geometric Data:**

- Bridge 01235 (Eastbound)**

- Structure Span: 102 feet , Vertical Clearance: 21'-8"**

- Bridge 01236 (Westbound)**

- Structure Span: 103 feet , Vertical Clearance: 15'-10"**

- Both bridges**

- 56'-6" out-to-out width (52'-10"curb-to-curb)**

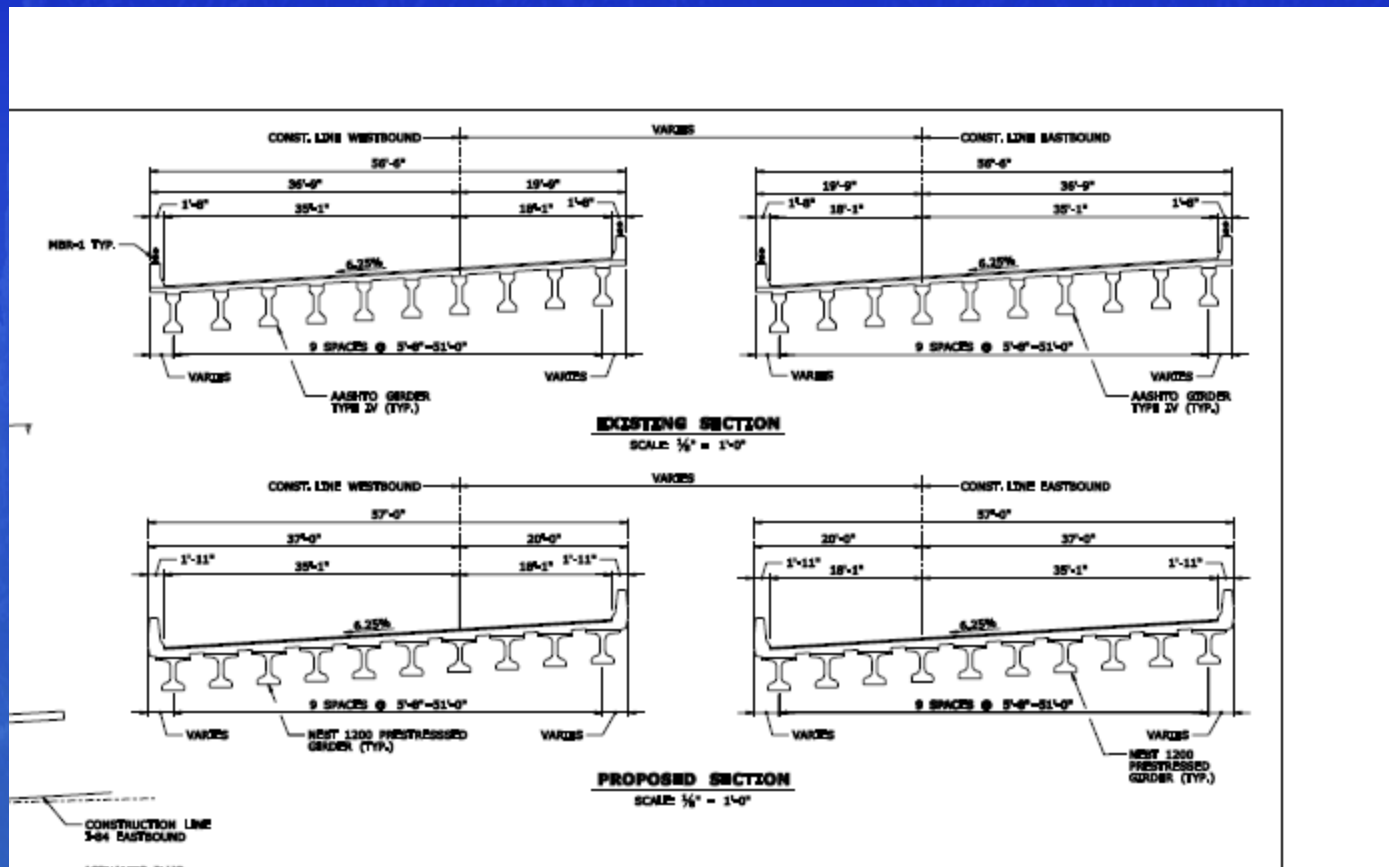
- **Concrete slab on 54 inch deep**

- AASHTO Pre-stressed Girders**

- **Concrete Abutments & Approach slabs**



Existing and Proposed Bridge Sections



Proposed Bridge

Proposed Bridge Geometric Data:

Bridge 01235 (Eastbound)

Structure Span 102 feet, Vertical Clearance 22'-2"

Bridge 01236 (Westbound)

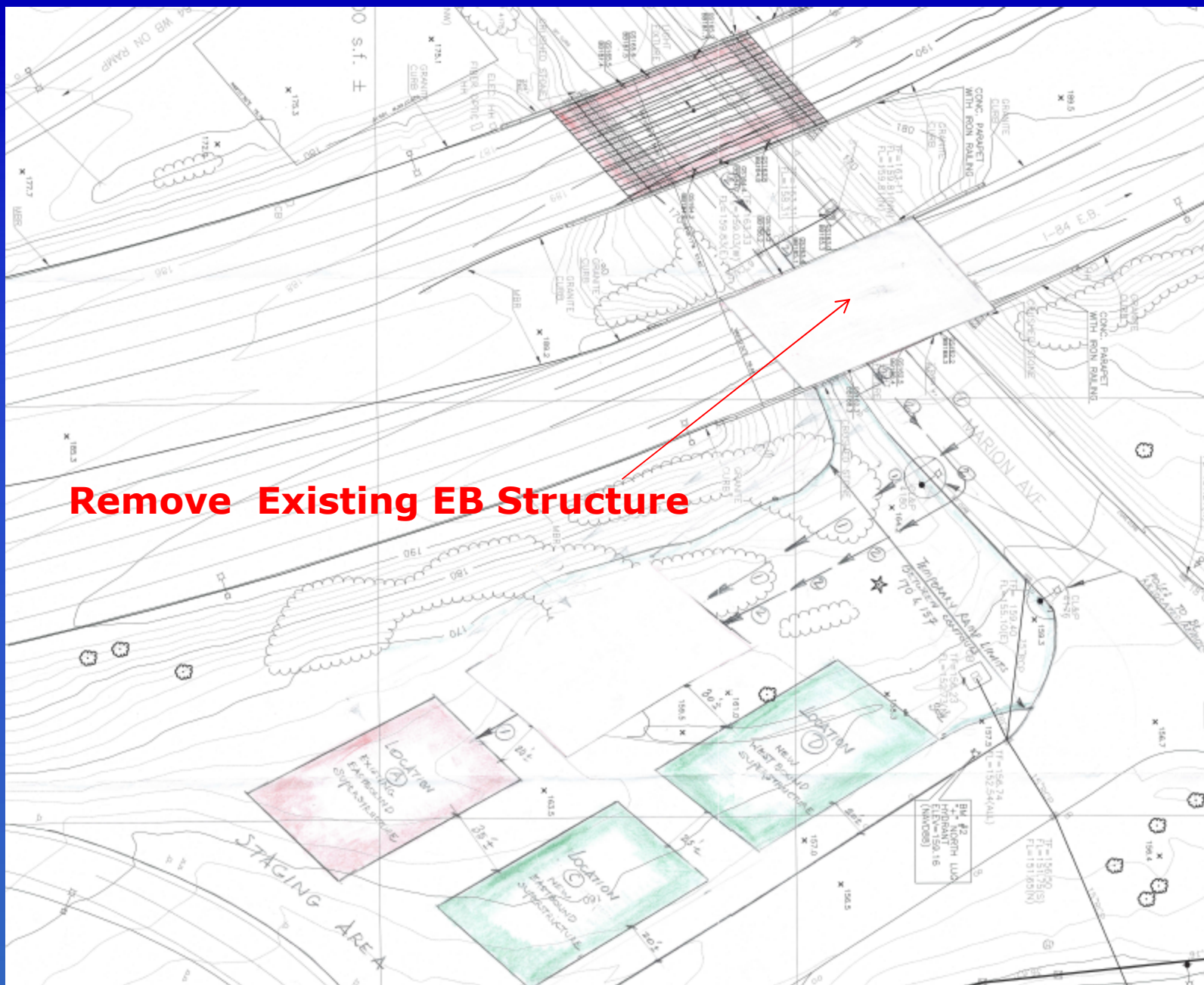
Structure Span 103 feet span, Vertical Clearance 16'-4"

Both bridges

56'-6" out-to-out width (52'-10" curb-to-curb)

- **Concrete slab on 48 inch deep
NEBT Pre-stressed Girders**
- **Concrete Abutments and Approach slabs**





Remove Existing EB Structure

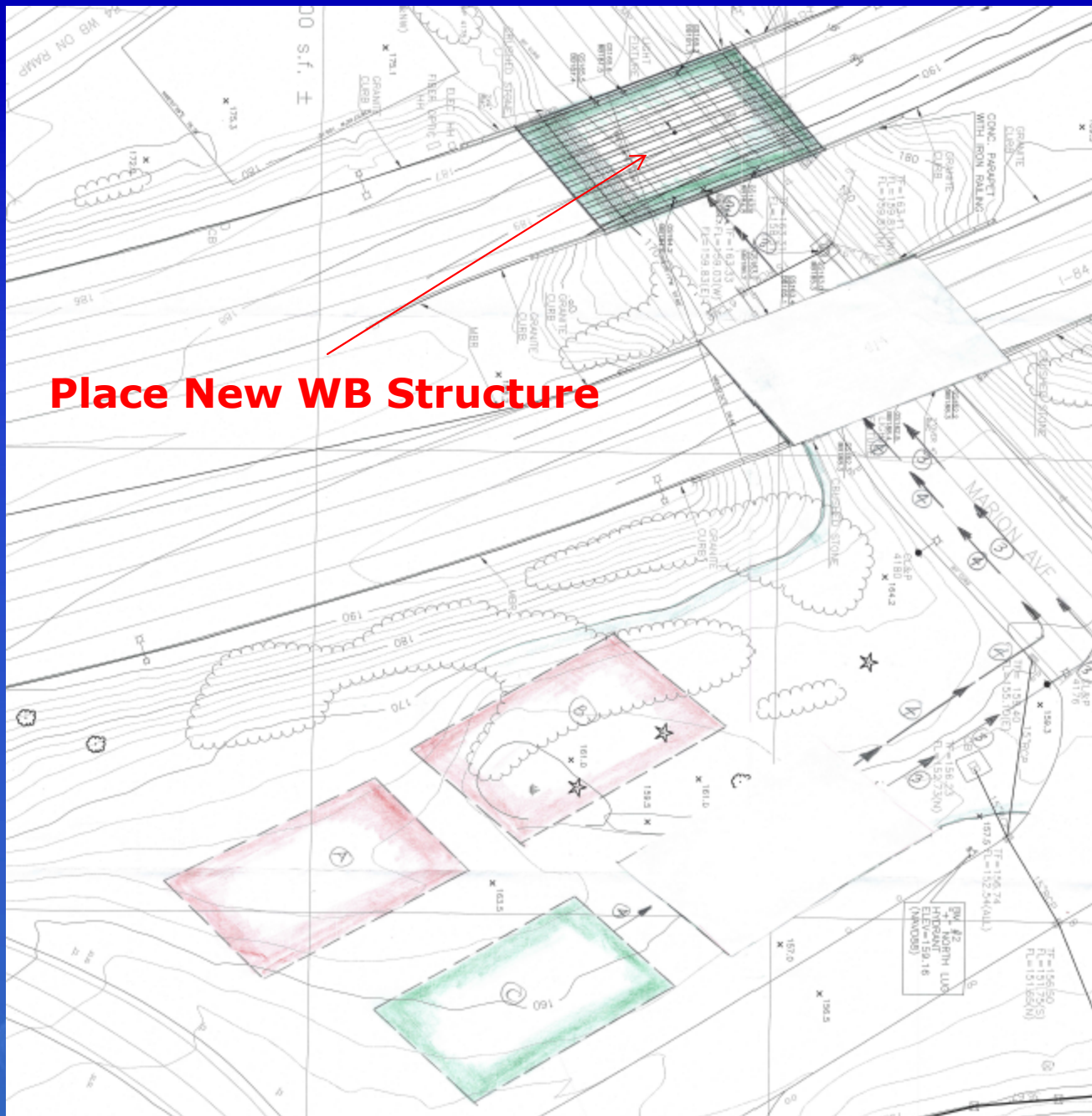
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The map displays the Marion Avenue bridge area with various proposed and existing structures. A red arrow points to a specific location on the map, labeled "Remove Existing WB Structure". The map includes contour lines, elevation markers, and labels for "STAGING AREA", "MARION AVE", and "Temporary Right of Way Limits".

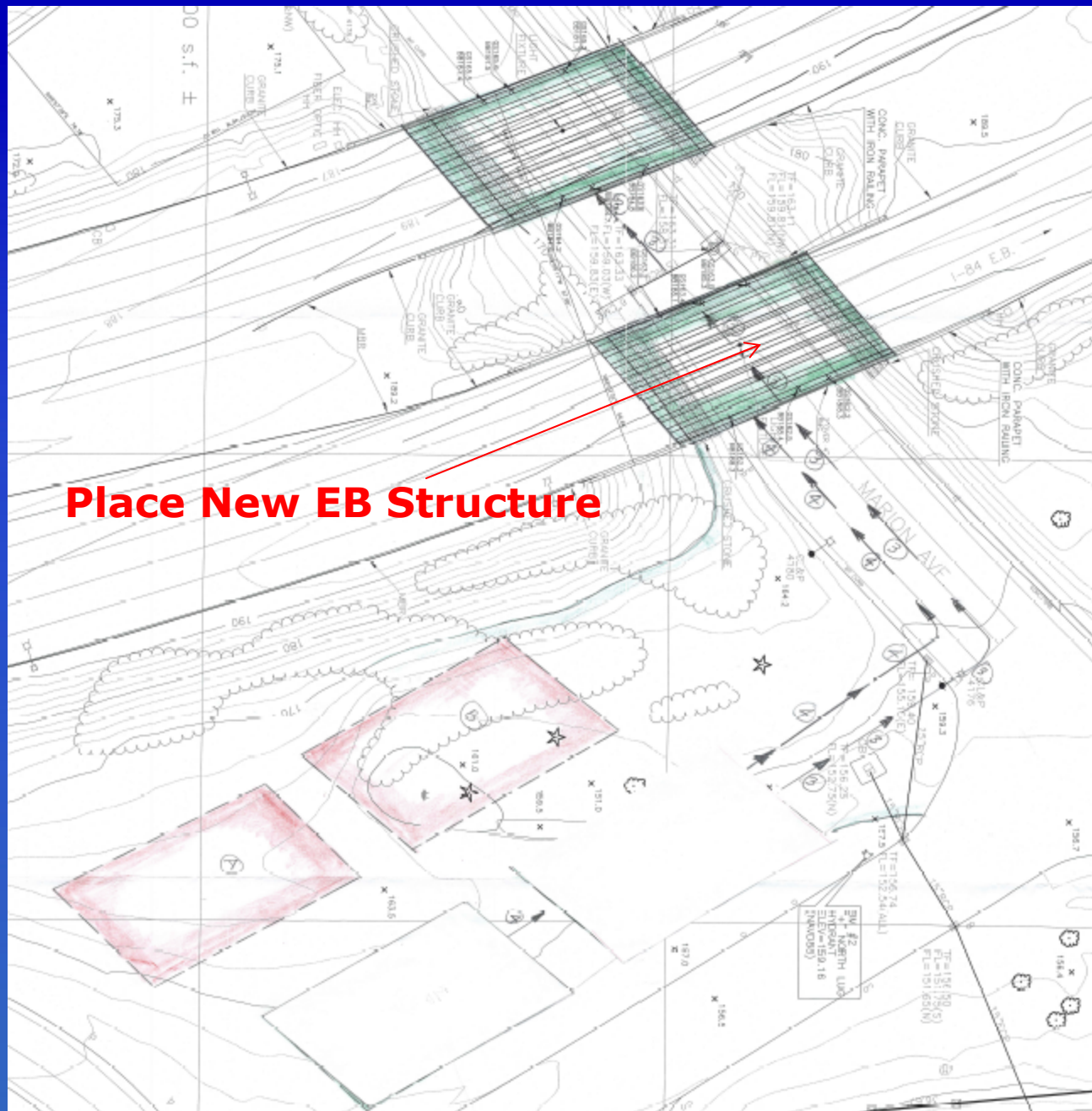


Place New WB Structure



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Place New EB Structure

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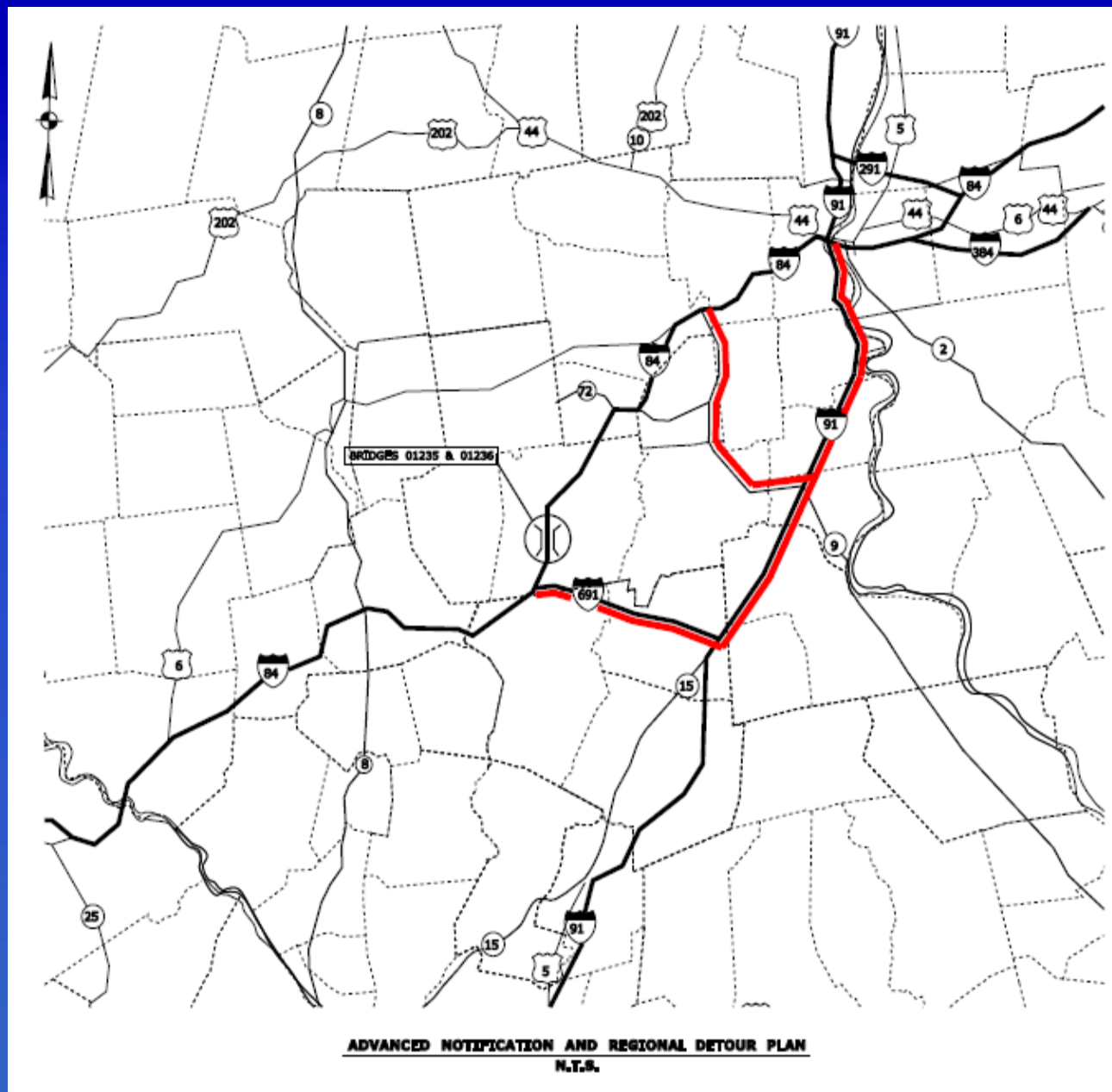


Maintenance & Protection of Traffic during Weekend Work

Regional Detour

- **I-84 EB traffic detoured along I-691, I-91, Route 9 and Route 72**
- **I-84 WB traffic detoured along Route 9, I-91 and I-691**
- **Entry to Marion Ave will be closed , One lane of I-84 EB and WB traffic open along ramps**
- **Marion avenue under the bridges will be closed during the weekend work , local traffic detoured along Diana Road, Prospect Street & West Street**





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Utility Impacts

Utilities in staging area on the south:

- **Three CL & P poles to be moved**
- **AT & T and cable facilities on poles to be relocated underground**
- **Under-bridge lights removed and replaced under the new bridge superstructures**





CL & P Poles on the south side by Atwater Street

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Environmental Permits and Property Impacts

- **No environmental permits required**
- **No property impacts**
- **All proposed work within CTDOT ROW**



Project Costs

Estimated project cost \$7 million

Bridge Rehabilitation with State Funds



Project Schedule

- **Construction is anticipated to begin in the Spring of 2013 and end in the Fall of 2013**
- **Project duration includes prefabrication of bridges in staging areas**
- **I-84 will be closed one weekend to place bridge superstructures**



Contact Information

- **CTDOT**

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THANK YOU...

FOR YOUR ATTENTION

**Connecticut Department of Transportation
and
Close, Jensen and Miller, P.C.**

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